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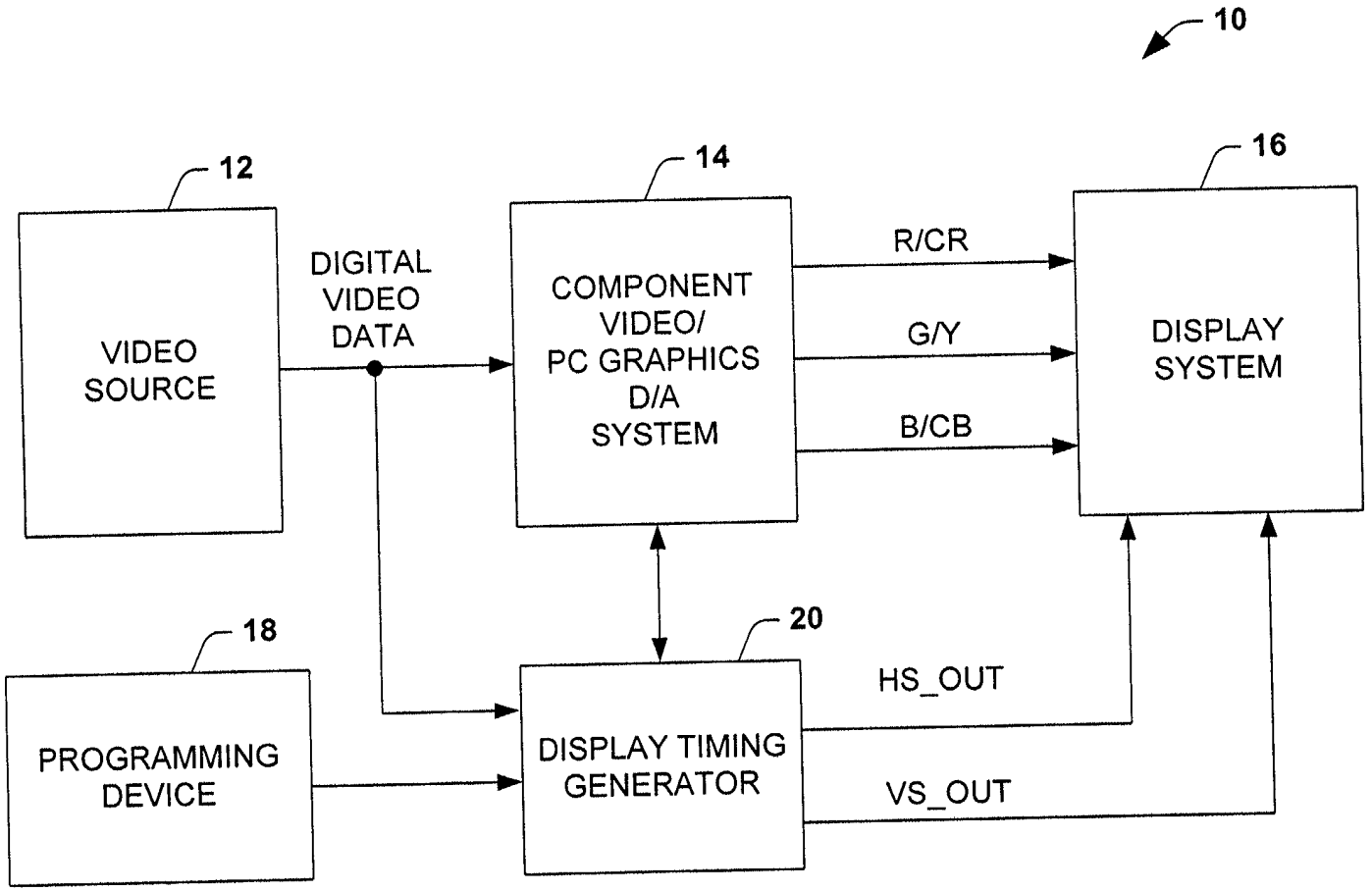

FIG. 1

T06T2T" 6E0S20DT

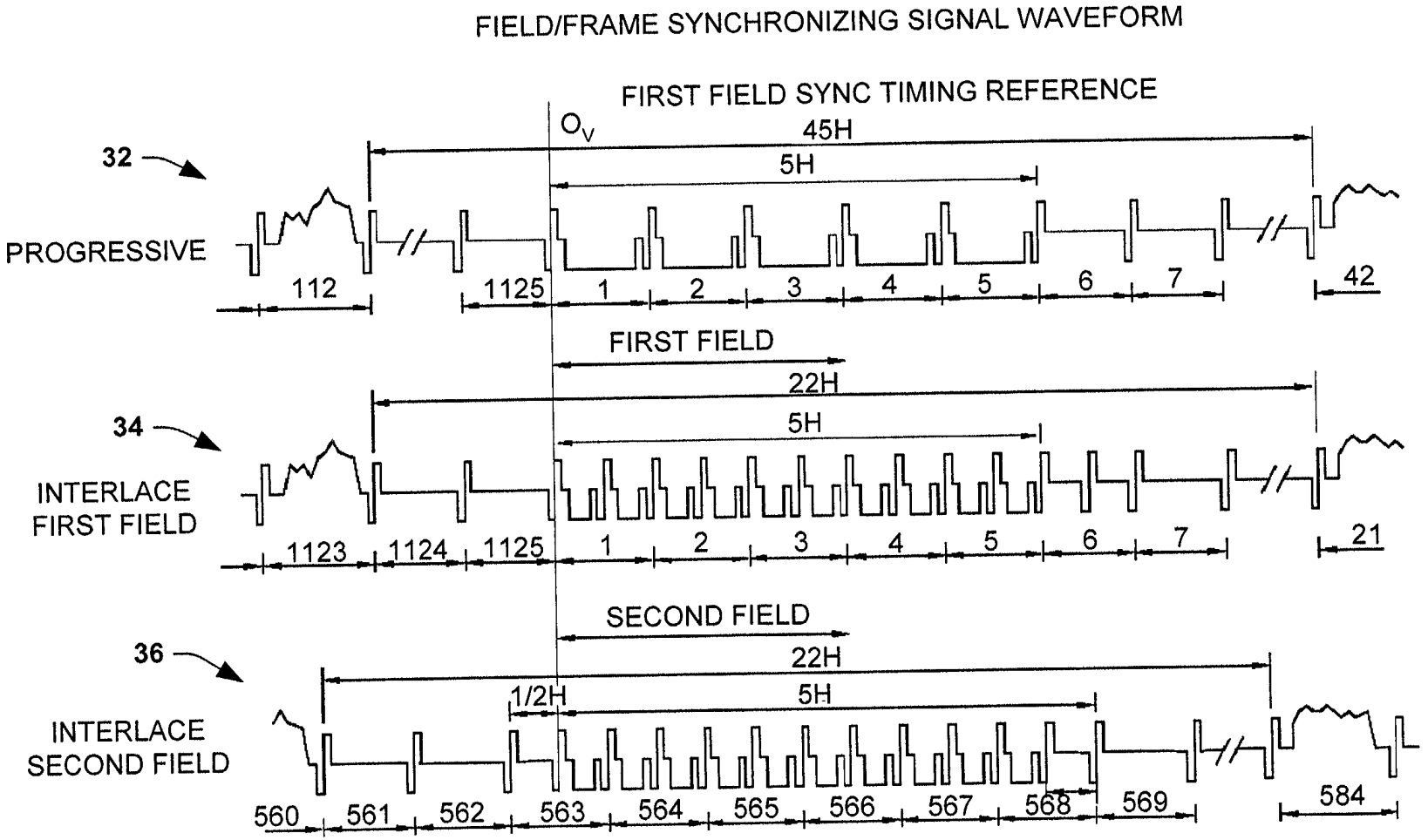

FIG. 2

Patent Application Publication

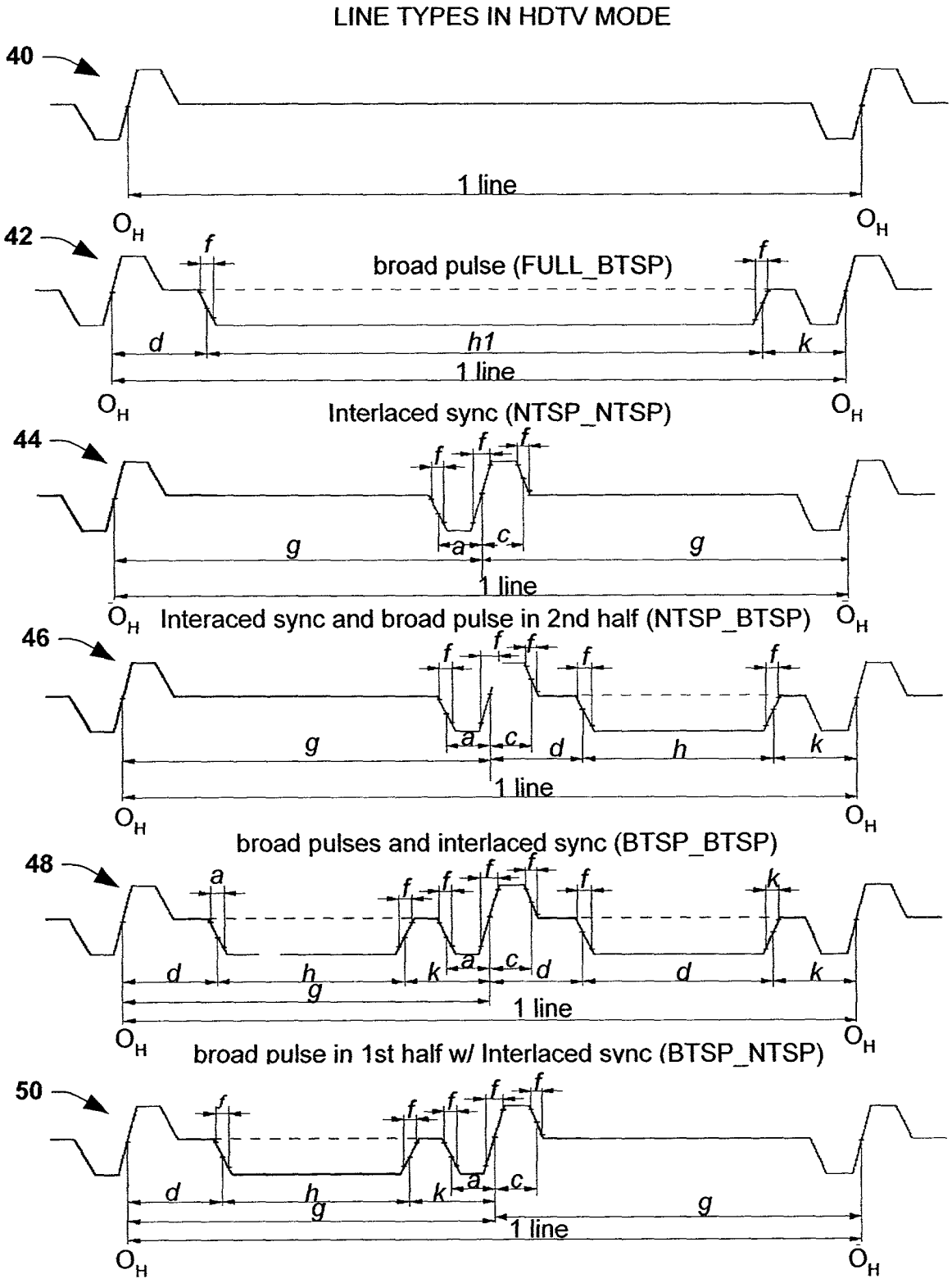

FIG. 3

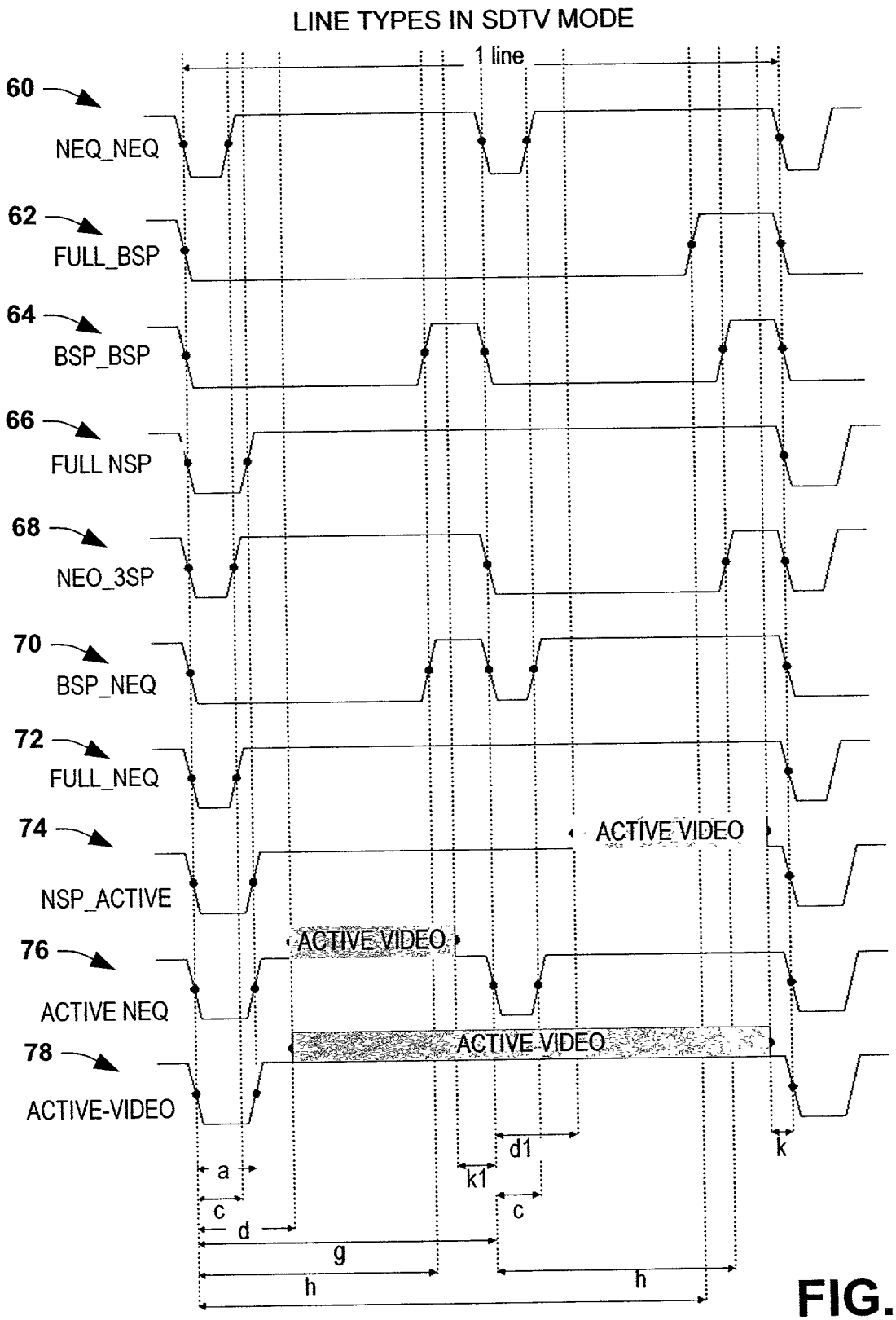
LINE TYPES IN SDTV MODE
1 line
60
NEQ_NEQ
62
FULL_BSP
64
BSP_BSP
66
FULL NSP
68
NEO_3SP
70
BSP_NEQ
72
FULL_NEQ
74
NSP_ACTIVE
ACTIVE VIDEO
76
ACTIVE NEQ
ACTIVE VIDEO
78
ACTIVE-VIDEO
ACTIVE VIDEO
a
c
d
g
h
k1
d1
c
h
k

FIG. 4

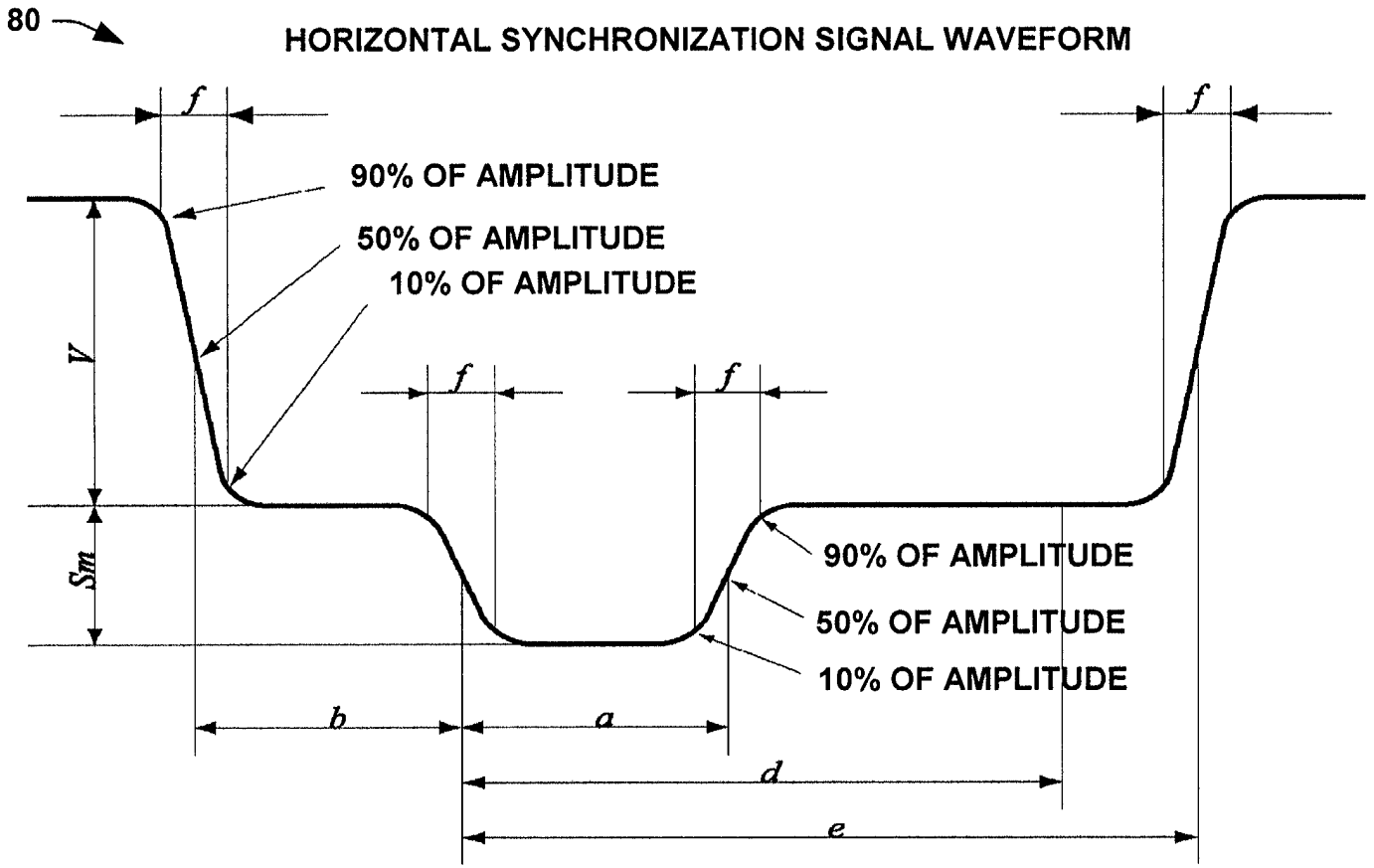
80
HORIZONTAL SYNCHRONIZATION SIGNAL WAVEFORM
f
f
90% OF AMPLITUDE
50% OF AMPLITUDE
10% OF AMPLITUDE
V
f
f
Sm
90% OF AMPLITUDE
50% OF AMPLITUDE
10% OF AMPLITUDE
b
a
d
e

FIG. 5

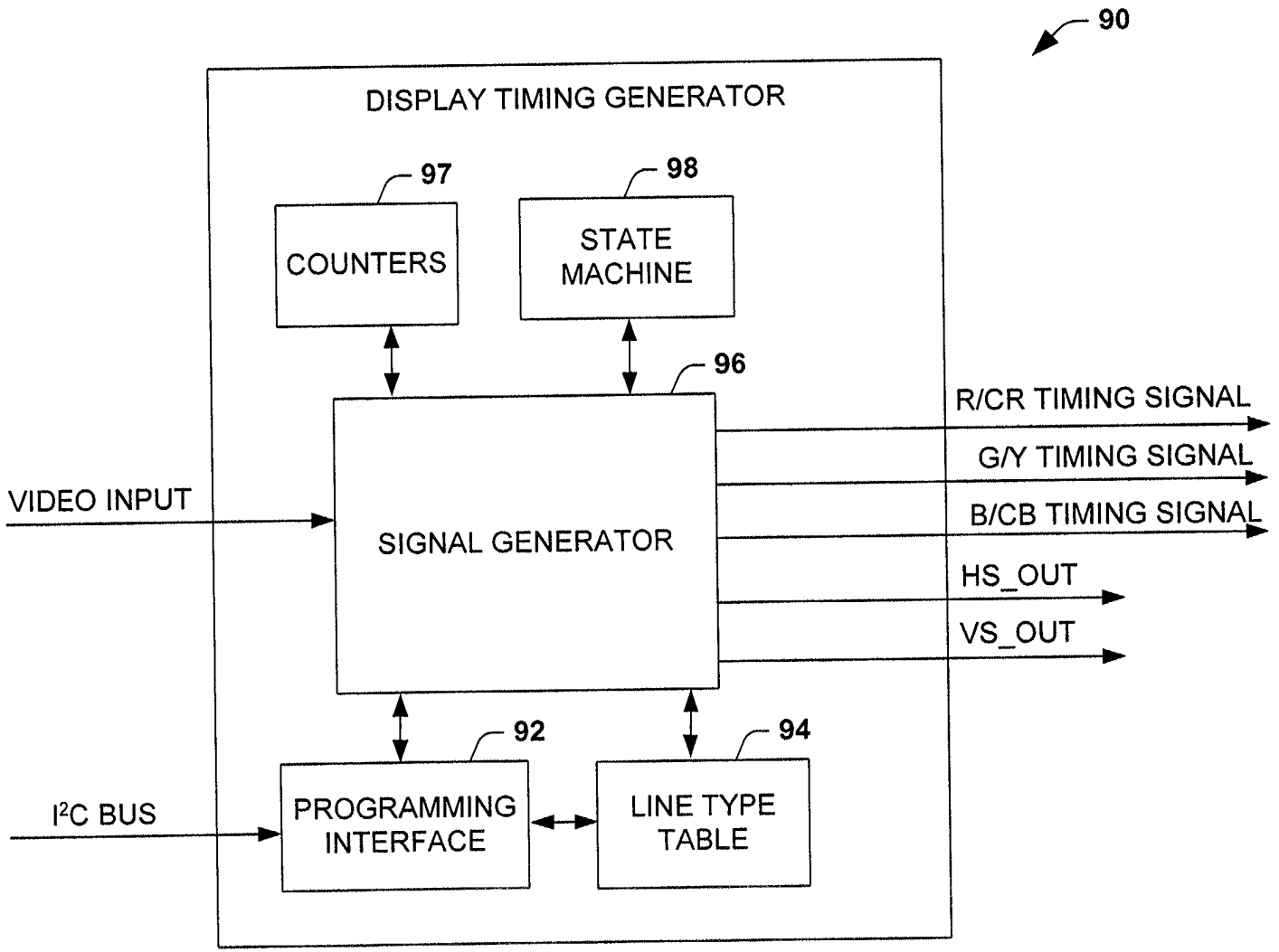
90
DISPLAY TIMING GENERATOR
97
98
COUNTERS
STATE MACHINE
96
SIGNAL GENERATOR
VIDEO INPUT
R/CR TIMING SIGNAL
G/Y TIMING SIGNAL
B/CB TIMING SIGNAL
HS_OUT
VS_OUT
92
94
I²C BUS
PROGRAMMING INTERFACE
LINE TYPE TABLE

FIG. 6

TO6T2T' 6E0S200T

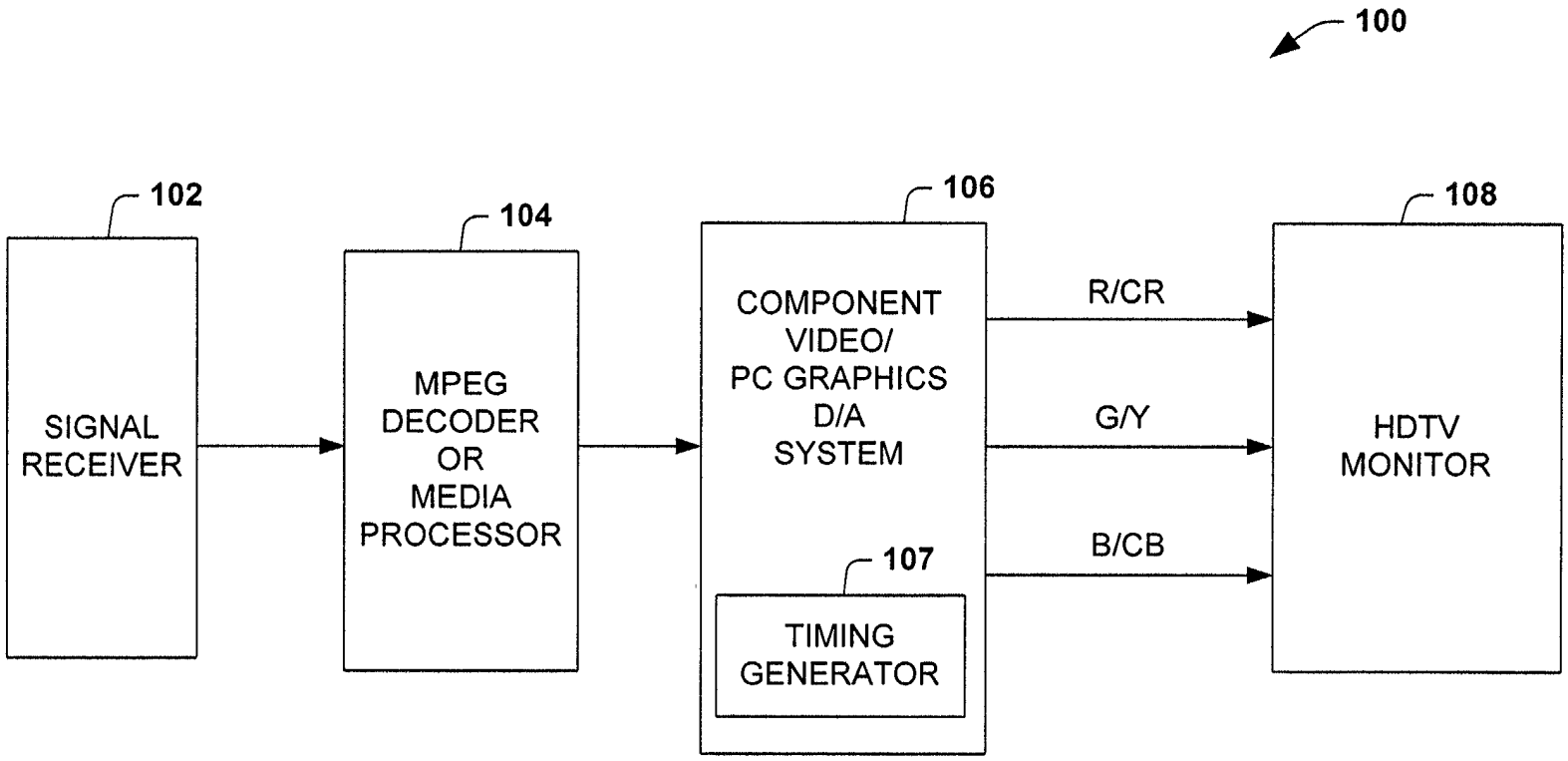

FIG. 7

T06T2F" 6E0S200T

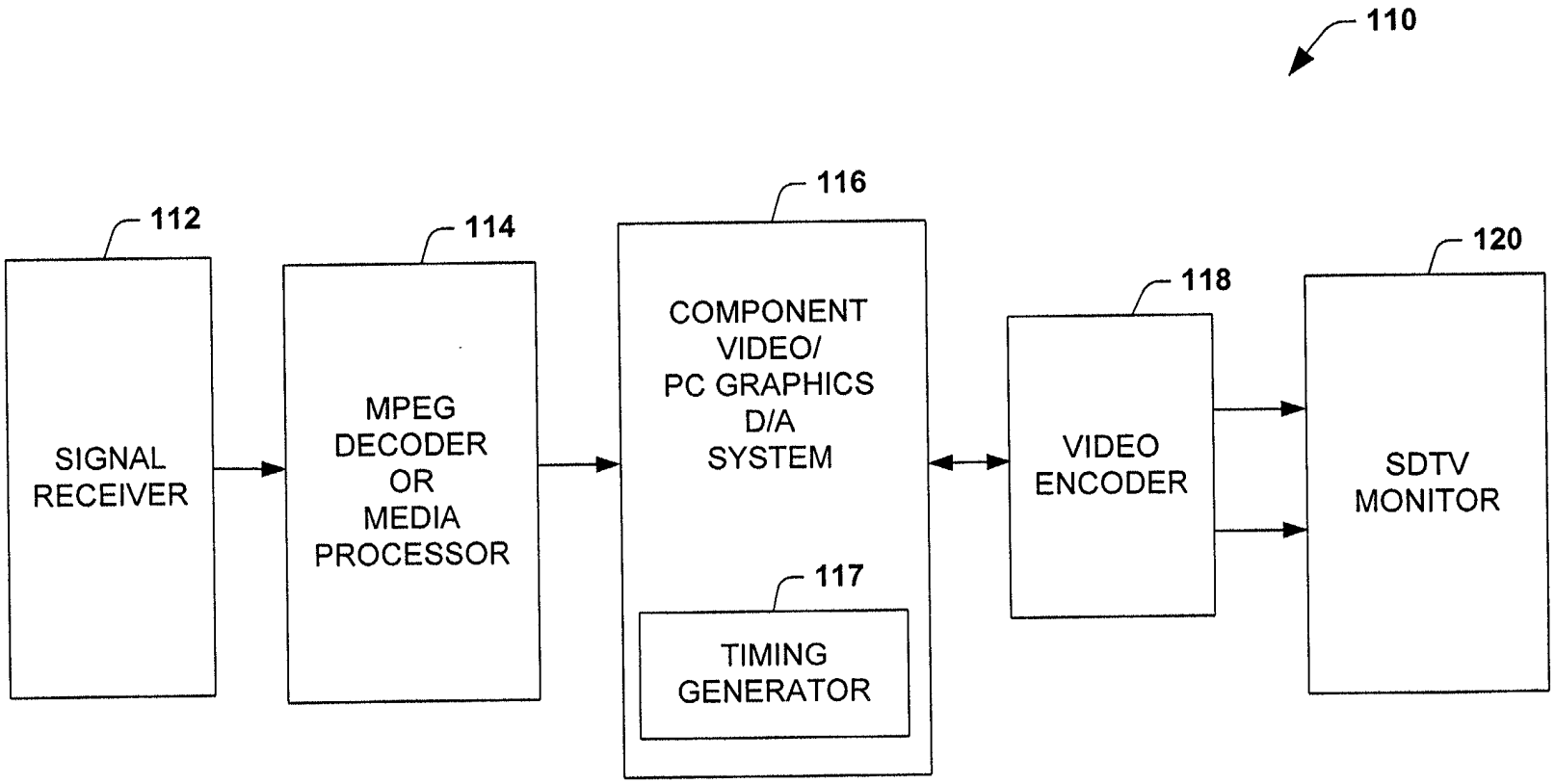

FIG. 8

T06T2T' 6E05200T

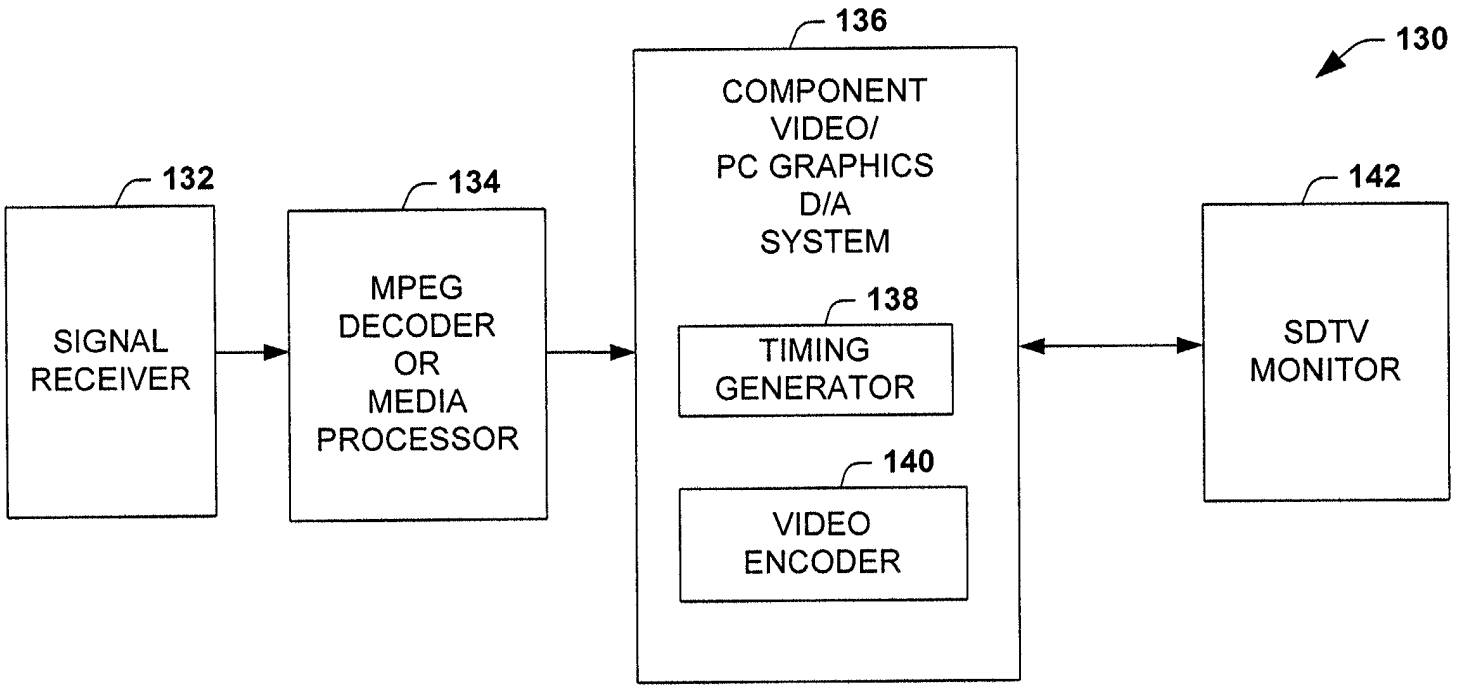

FIG. 9

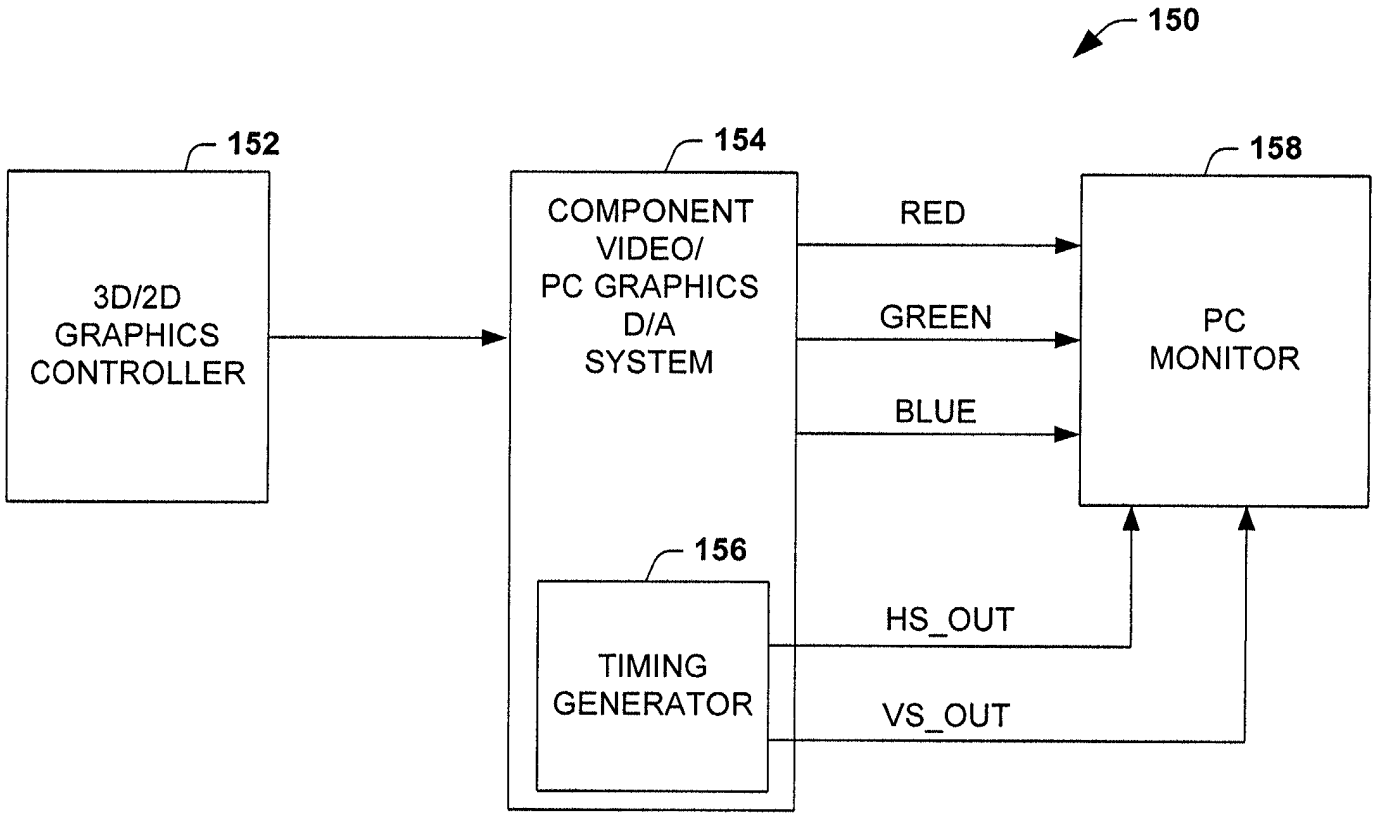
150
152
3D/2D
GRAPHICS
CONTROLLER
154
COMPONENT
VIDEO/
PC GRAPHICS
D/A
SYSTEM
156
TIMING
GENERATOR
RED
GREEN
BLUE
HS_OUT
VS_OUT
158
PC
MONITOR

FIG. 10

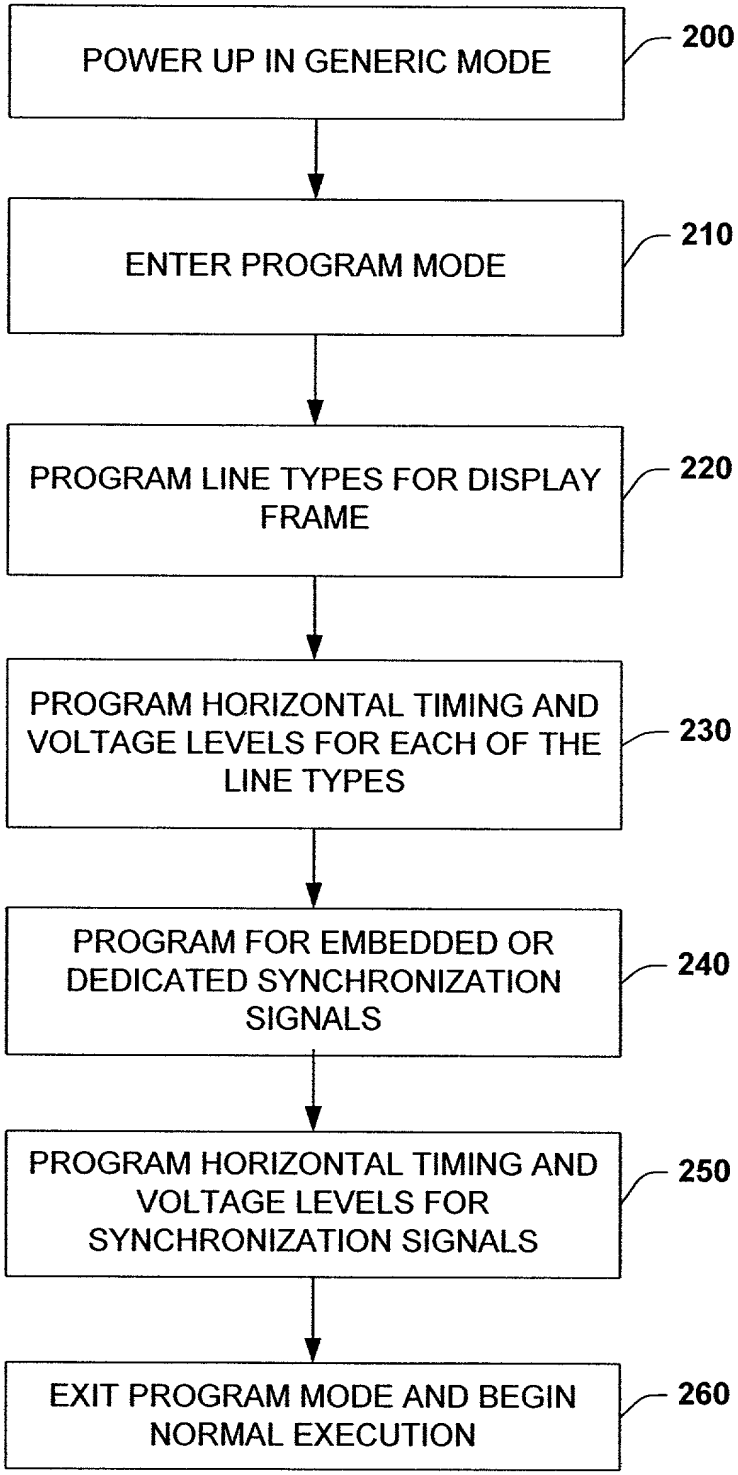
POWER UP IN GENERIC MODE
200
ENTER PROGRAM MODE
210
PROGRAM LINE TYPES FOR DISPLAY FRAME
220
PROGRAM HORIZONTAL TIMING AND VOLTAGE LEVELS FOR EACH OF THE LINE TYPES
230
PROGRAM FOR EMBEDDED OR DEDICATED SYNCHRONIZATION SIGNALS
240
PROGRAM HORIZONTAL TIMING AND VOLTAGE LEVELS FOR SYNCHRONIZATION SIGNALS
250
EXIT PROGRAM MODE AND BEGIN NORMAL EXECUTION
260

FIG. 11